exposure
high fidelity engineering
since 1974

2010S2 DAC

(Digital-to-Analogue Convertor)

Quick Start Manual

Thank you for purchasing the Exposure 2010S2 DAC.

Before you start

Contents:

Exposure 2010S2 DAC

Mains cable

HS-102 Exposure System remote control
(batteries not included)

Ensure your unit is switched off. Set the volume control on your amplifier to minimum before connecting the DAC.

Please note that your 2010S2 DAC may take up to 48 hours to "run-in" before reaching its optimal performance. Each subsequent "run-in" will then take about 30 minutes.

If you are using a power amplifier, set the volume to the minimum level, for example "-22" in the menu of the DAC.

Installation

Exposure 2010S2 DAC : Front View

a) Turn volume control on your amplifier to minimum before connecting or disconnecting any cables.

b) Connect the DAC mains cable to the IEC mains input socket.

c) Connect to the mains outlet on the wall. DO NOT switch on until all input and output connections are made.

2 CD Player/DVD/AV Processor/etc Connections

The Exposure 2010S2 DAC is fitted with 6 digital inputs, suitable for connection of CD players, AV Processors, PCs, DVD players and other source components.

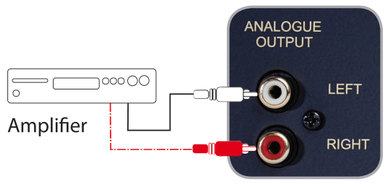
Exposure 2010S2 DAC : Rear View

Output

- 1 coax output 32KHz to 192KHz 16 to 24 bits (selectable on/off in menu)
- 1 optical output 32KHz to 96KHz 16 to 24 bits (selectable on/off in menu)
- 1 headphone output up to 4.5V RMS with volume control
- 1 line output, 2V RMS fixed or up to 4.5V RMS with volume control

Analogue Output

For connection to analogue input on amplifier (the volume level is fixed)

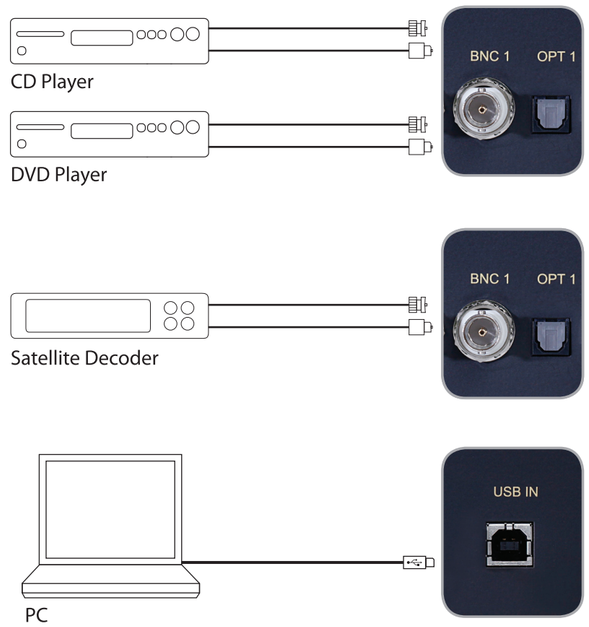


a) Ensure left and right channels are connected correctly. (right channel is marked in red)

b) Or to a power amplifier (volume level needs to be set to variable on the DAC.)

Input

- 3 coax inputs 32KHz to 192KHz, 16 to 24 bits
- 2 optical inputs 32KHz to 96KHz, 16 to 24 bits
- 1 USB input, 96KHz 24 bits fixed



3 Operation

a) Press to decrease or increase the volume
(no function when LINE output is fixed level)

b) Selects the previous input
(or setting when in menu mode)

c) Selects the next input
(or setting when in menu mode)

d) Selects the menu mode
OUTPUT - selects HP or LINE output
DIG OUT - selects the digital output ON or OFF
FILTER - selects one of 5 digital fillters
SAMPLE FREQ - displays the received sample frequency
SET VOL - selects the volume setting for the LINE output. MAX selects the fixed level of 2V RMS
VERSION - displays the software version of the 2010S2 DAC
(use the previous and next buttom to navigate through selections)

e) Turn the display ON or OFF.
(in menu mode press to select function)

4 Remote Control

Technical Specifications

Frequency Response:	20Hz - 20Khz ± 0.2dB
Total Harmonic Distortion:	<0.005% at 2V RMS 1KHz output
Signal to Noise Ratio:	>110dB ref 2V RMS output @ 1KHz
Channel Separation:	20Hz - 20KHz, >60dB
Mains Supply: (factory set)	110/120V or 220/240V, 50/60Hz
Power Consumption:	20VA
Dimensions (H x W x D):	90 mm x 440 mm x 310 mm
Nett Weight (Unpacked):	5 kg
Gross Weight (Packed):	7 kg

DAC filter settings:

A) Low sample rate (32-48KHz)

1. Linear phase half band filter
2. Minimum phase "soft knee" filter
3. Minimum phase half band filter
4. Linear phase apodising filter
5. Minimum phase apodising filter

B) Medium and high sample rate (88K2-192KHz)

1. Linear phase "soft knee" filter
2. Minimum phase "soft knee" filter
3. Linear phase "brickwall" filter
4. Minimum phase apodising filter
5. Linear phase apodising filter

Safety

Incorrect installation or inappropriate use of the Exposure 2010S2 DAC may result in injury due to electric shock.

- Ensure that the voltage rating on the rear panel of this unit matches that of your local mains supply.*
- Ensure that the mains cable and plug supplied with this unit is also correct. (Contact your dealer immediately if this is not the case.)
- This unit is protected by a mains fuse which is accessible as part of the IEC socket on the rear panel.
- Fuse replacement specifications:
  220/240V units T630mA fuse
  110/120V units T1.25A fuse
- Protect this unit against all forms of liquid. Never expose unit to dripping or splashing, or place objects filled with water, such as vases, on the unit.
- Unplug unit from mains when not in use for prolonged periods.
- Do not open this unit - there are NO user serviceable parts inside.

* Contact Exposure Electronics for advice on moving your equipment to another country or territory.

Caution

For a long and trouble-free life of your 2010S2 DAC, please ensure the following:

- Protect unit against all forms of liquid. Never expose unit to dripping or splashing, or place objects filled with water, such as vases, on the unit.
- Do not operate the unit in a damp environment or allow liquids to enter the unit.
- Do not attempt to bypass the mains fuse or replace the fuse with one of a different specification.
- Do not use abrasive or solvent-based cleaning fluids on the case.

Failure to observe these precautionary measures may void your warranty.

Exposure Warranty Policy

1. The Exposure warranty entitles you to FREE repair of this unit for the first three (3) years from the date of purchase.
2. This warranty is valid only if the unit is purchased from an authorised Exposure dealer, registered with the authorised agent in your country of residence.
3. The agent accepts no responsibility for defects arising from accident, misuse, abuse, wear and tear, neglect or through unauthorised adjustment and/or repair or replacement of any components, nor will they accept responsibility for damage or loss occurring during transit to or from the person making a claim under warranty.
4. The Exposure warranty covers:
   Parts and labour costs for three (3) years from the date of purchase. Please retain your original receipt as proof of purchase and purchase date. The guarantee is extended only to the original purchaser and is not transferable.

When making claims under this warranty:

1. The equipment should be suitably packed and returned to the dealer from whom it was purchased, or directly to the local distributor, together with proof of purchase or a copy of the dated sales receipt.
2. If necessary the unit should be sent carriage pre-paid by a reputable carrier - NOT by post.
3. No responsibility is accepted for the unit whilst in transit to the dealer or agent, and customers are advised to insure the unit against loss or damage whilst in transit.
4. Any tampering or alteration made to the warranty card or to the serial number on the equipment will invalidate the warranty.
5. The dealer or the agent shall notify the customer when the repairs have been completed. The customer must claim the goods within fourteen days from the date of notice, failing which; the Company reserves the right to impose storage charges.
6. The Company reserves the right to dispose of the equipment after 90 days from the date of notice in a manner that it sees fit without compensation to the customer.